#### CONFIDENTIAL - NOT FOR PUBLIC RELEASE

West End Gas Works November 15, 1992

Report No.: J009-SI

Rev. No.: 0

#### Summary and Recommendation

The West End Gas Works Site is recommended for NO FURTHER REMEDIAL ACTION PLANNED. Sufficient information and data are available to evaluate the site to determine that no further CERCLA remedial action is required. Groundwater use within 4 miles of the site is limited to commercial and industrial uses only. The surrounding populations receive their drinking water from surface water bodies located more than 15 miles from the site. No surface water intakes used for drinking water are located within 15 miles downstream from the site. Analyses of surface water samples collected in 1983 do not indicate a release of any contaminants from site into the Hackensack River. Due to the nature of the waste (tar), any on-site contaminants would be expected to migrate relatively slowly. Additionally, there is limited potential for exposure to on-site soils as the entire property is fenced.

# APPENDIX D SITE INSPECTION WORKSHEETS

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Site Name: Nest End BAS Works

Date: 10/25/91

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PA TABLE 1: WASTE CHARACTERISTICS (WC) SCORES

PA Table 1a: WC Scores for Single Source Sites and Formulas for Multiple Source Sites

т		SINGLE S	OURCE SITES (assigned WC a	(cores)	MULTIPLE SOURCE SITES
E	SOURCE TYPE	WC = 18	WC = 32	WC = 100	Formula for Assigning Source WQ Values
UGZet+DWZF	N/A	≤100 lbs	>100 to 10,000 lbs	> 10,000 lbs	/bs + 1
<b>3491-491-8843</b>	N/A	≤500,000 lbs ·	> 500,000 to 50 million lbs	>50 million lbs	lbs + 5,000
	Landfill	≤6.75 million ft <sup>3</sup> ≤250,000 yd <sup>3</sup>	>6.75 million ft <sup>2</sup> to 675 million ft <sup>2</sup> >250,000 to 25 million yd <sup>2</sup>	>675 million ft <sup>2</sup> >25 million yd <sup>3</sup>	ft <sup>2</sup> + 67.500 ya <sup>3</sup> + 2.500
	Surface impoundment	≤6,750 ft³ ≤250 yd³	>6,750 ft <sup>3</sup> to 675,000 ft <sup>3</sup> >250 to 25,000 yd <sup>3</sup>	>675,000 ft <sup>3</sup> >25,000 yd <sup>3</sup>	ft <sup>3</sup> + 67.5 yd <sup>3</sup> + 2.5
0	Drums:	≤1,000 drums	>1,000 to 100,000 drums	>100,000 drums	drums ÷ 10
U M	Tanks and non- drum containers	≤50,000 gallens	>50,000 to 5 million gallone	>5 million gallens	gallons + 500
•	Contaminated soil	≤6.75 million ft² ≤250,000 yd³	> 6.75 million ft <sup>2</sup> to 675 million ft <sup>2</sup> -> 250,000 to 25 million yd <sup>2</sup>	>675 million ft <sup>2</sup> >25 million yd <sup>3</sup>	fc² + 67,500 yd³ + 2,500
	Pile	≤6,750 ft³ ≤250 yd³	> 6.750 ft <sup>2</sup> to 675,000 ft <sup>2</sup> > 250 to 25,000 yd <sup>2</sup>	> 675,000 ft <sup>2</sup> > 25,000 yd <sup>3</sup>	ft + 67.5 you + 2.5
	Landfill	≤340,000 ft <sup>2</sup> ≤7.8 acres	>340,000 to 34 million ft <sup>2</sup> >7.8 to 780 acres	>34 million ft <sup>2</sup> >780 acres	ft <sup>2</sup> + 3,400 acres + 0.078
	Surface impoundment	≤1,300 ft² ≤0.029 acres	>1,300 to 130,000 ft <sup>1</sup> >0.029 to 2.9 acres	>130,000 ft <sup>2</sup> >2.9 ecres	fr² + 13 acres ÷ 0.00029
RE	Contaminated soil	≤3.4 million ft² ≤78 eares	>3.4 million to 340 million ft <sup>3</sup> >78 to 7,800 acres	>340 million ft <sup>2</sup> >7,800 acres	ft + 34,000 acres + 0.78
^	Pile*	≤1,300 ft <sup>2</sup> ≤0.029 acres	>1,300 to 130,000 ft <sup>2</sup> >0.029 to 2.9 acres	>130,000 ft <sup>2</sup> >2.9 acres	ft <sup>2</sup> + 13 acres + 0.00029
	Land treatment:	≤27,000 ft <sup>2</sup> ≤0.82 eares	> 27,000 to 2.7 million ft <sup>2</sup> > 0.62 to 62 scree	>2.7 million ft <sup>2</sup> >62 ecres	ft <sup>2</sup> + 270 acres + 0.0062

<sup>1</sup> ton = 2.000 lbs = 1 yd<sup>3</sup> = 4 drums = 200 gallens

PA Table 1b: WC Scores for Multiple Source Sites

WQ Total	WC Soore
>0 to 100	18
> 100 to 10,000	. 32
> 10,000	100

<sup>.</sup> Use area of land surface under pile, not surface area of pile.

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Site Name: West End Gas Works

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#### **GROUND WATER PATHWAY SCORESHEET**

		Pathway Characteristics			
		Do you suspect a release (see Ground Water Pathway Criteria List, page 7)?	Yes	No 🗸	
		Is the site located in karst terrain?	Yes	No 🗸	
		Depth to aquifer:		< 10 ft	
		Distance to the nearest drinking-water well:		N/A ft	
			A	8	
LIF	CELIHO	OOD OF RELEASE	Suspected Release	No Suspected Release	References
1.	SUSPE	ECTED RELEASE: If you suspect a release to ground water (see page 7), a score of 550, and use only column A for this pathway.	(660)		
2.	the sit	USPECTED RELEASE: If you do not suspect a release to ground water, and se is in karst terrain or the depth to aquifer is 70 feet or less, assign a score of 340. Use only column B for this pathway.		200 1500 a 3401	
		LR =		500	
TA	RGET	<u>S</u>			•
3.	drinkin	ARY TARGET POPULATION: Determine the number of people served by any water from wells that you suspect have been exposed to hazardous unces from the site (see Ground Water Pathway Criteria List, page 7). Opeople x 10 ==			
4.	drinkir	NDARY TARGET POPULATION: Determine the number of people served by any water from wells that you do NOT suspect have been exposed to hazardous inces from the site, and assign the total population score from PA Table 2.			
		Are any wells part of a blended system? Yes No No If yes, attach a page to show apportionment calculations.		٥	
5.	assign	EST WELL: If you have identified any Primary Targets for ground water, a score of 50; otherwise, assign the highest Nearest Well score from ble 2. If no drinking-water wells exist within 4 miles, assign a score of zero.	50,20,10.9.6.3 <sub>,</sub> 2, ar 0	[20,18.9.5.2.2. or 0]	
6.	WELL! a desi	HEAD PROTECTION AREA (WHPA): Assign a score of 20 if any portion of gnated WHPA is within ¼ mile of the site; assign 5 if from ¼ to 4 miles.	120. S. <b>⇔</b> O	(70. \$. # O)	
7.		URCES: A score of 5 is assigned.	141 5	(S) 5	
<u></u>		T =		5	
W	ASTE	CHARACTERISTICS			ı
8.	ch	you have identified any Primary Targets for ground water, assign the waste aracteristics score calculated on page 4, or a score of 32, whichever is REATER; do not evaluate part B of this factor.	[100 <b>= 32</b> ]		
	B. If	you have NOT identified any Primary Targets for ground water, assign the aste characteristics score calculated on page 4.	[100,32, ar 18]	(100.32, ± 141	
		. wc =		18	
					3
G	ROUNI	D WATER PATHWAY SCORE:  LR x T x WC 82,500	Contract to a	54-	
			B		I

#### PA TABLE 2: VALUES FOR SECONDARY GROUND WATER TARGET POPULATIONS

	PA T	ABLE 2: \	/ALUES		CONDAR				GET POI	PULATIO	NS	Site Nar Date:	ne: Wes7 8 <b>W</b> 10] <del>35</del> /9]	ر د
	1 .	Nearest	14 8	.,	Рор	ulation Se	rved by V	alis Within					<u> </u>	٦٤
Distance from Site	Populetion .	Well (choose highest)	1 to 10	11 to 30	31 to 100	101 to 300	301 to 1,000	1,901 to 3,000	2,001 to 10,000	10,001 to 30,000	30,001 to 100,000	100,001 to 300,000	Population Value	
O to X mile	0	20	1	2	5	16	52	163	521	1,633	5,214	16,325	0	'
> X to X mile	0	, 18	1	1	3	10	32	101	323	1,012	3,233	10,121	0	
>% to 1 mile	0		1	,	2	5	17	52	167	522	1,668	5,224	0	
>1 to 2 miles	0	5	1	,	1	ą	9	29	94	294	939	2,938	<u> </u>	
> 2 to 3 miles	0	3	1	,	1	2	7	21	68	212	678	2,122	0	
>3 to 4 miles	0	2	1	,	1	1	4	13	42	131	417	1,306	0	
	Nearest Well =	0		ŧ	B	<del></del>	<del></del>					Score =	0	

PA Table 2b: Karst Aquifers

		Negrest			Pop	detion Se	ryed by W	eds With	n Distance	Category	MAN THE P		
Distance from Site	Population	Well (use 20 for karst)	1 20 10	11 40 30	31 to 100	101 to 300	301 to 1,000	1,001 to 3,000	1,001 to 10,000	10,001 to 30,000	30,001 to 100,000	100,001 to 300,000	Population Value
O to % mile	-	20	1	2	5	16	52	163	521	1,633	5,214	16,325	
> ¼ to ½ mile		20	1	1	3 ,	10	32	101	323	1,012	3,233	10,121	<del></del>
>% to 1 mile		20	1	1	3.	8	26	82	261	816	2,607	8,162	
>1 to 2 miles	-	20	- 1	1	3	8 .	26	82	261	816	2,607	8,162	
>2 to 3 miles		20	1	1	3	8	26	82	261	816	2,607	8,162	
>3 to 4 miles		20	1	1	3	8	26	82	261	816	2,607	8,162	~ •
	Nearest Well =										:	Score =	



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#### NOV 06 1990 **SURFACE WATER PATHWAY** LIKELIHOOD OF RELEASE AND DRINKING WATER THREAT SCORESHEET

		Pathway	Characteristics				
		Do you suspect a release (see Surface Water f	Pathway Criteria	List, page 11)?	Yes	_ No _	
		Distance to surface water:			_	ft	
		Flood Frequency:				<u>100</u> yrs	
		What is the downstream distance to the neare					
		nearest fishery? omilesnearest sen	sitive environme	int/			
				_	<u> </u>	В	
						o Suspected	0-6
Ĺ	IKE	IHOOD OF RELEASE			Release	Release	References
1	s	JSPECTED RELEASE: If you suspect a release to st	urface water (se	e page 11).	1300		
•		sign a score of 550, and use only column A for this					
					1	500,400,300 ar 1001	
2		O SUSPECTED RELEASE: If you do not suspect a r		155			
		e distance to surface water is 2,500 feet or less, a ise, assign a score from the table below. Use only					
	V			s patrivey.			
		Floodplain	Score				
		Site in annual or 10-yr floodplain	400 4			400	
		Site in 100-yr floodplain Site in 500-yr floodplain	300			~~	
		Site outside 500-yr floodplain	100				
						500,400,300 at 100)	
				LR =	(560)	400	
		WIND WATER TUREAT TARGETS		L			<b>J</b>
_		KING WATER THREAT TARGETS				<b>88</b> 860000000000000000000000000000000000	1
		etermine the water body types, flows (if applicable					]
ļ		y all drinking-water intakes within the 15-mile targe					
١		rinking-water intakes within the target distance lim					
l	_	f 5 at the bottom of this page (Resources only) and					
١	ļ	Intake Name Water Body Typ	e Flow I	People Served			1
١	1	N/A	cf:	·			1
l			cf	·			
١	- 1		 cf	5			4
١	l						
l		PRIMARY TARGET POPULATION: If you suspect a					
l		above has been exposed to hazardous substances f	rom the site (see	Surface Water			
l		Pathway Criteria List, page 11), list the intake name	e(s) and calculat	e the factor	l <sup>.</sup>		
١		score based on the number of people served.			<b>!</b>		
l		N/A					
١			0	people x 10 =			
١	_	ARROND A DV TA SOFT BOOK!! A TION.	ha Casandani T				-
	٥.	SECONDARY TARGET POPULATION: Determine to Population score from PA Table 3 based on the population.					
١		from intakes that you do NOT suspect have been e					1
		substances from the site.			1		1
1		Are any intakes part of a blended system?N	l. Yee No				1
ı		If yes, attach a page to show apportionmen		<del></del>		٥	ļ
		ii jee, etteen e pege to snorr apportantion			[50,20,10,2,1, <b>=</b> 0]	(20,10,2,1, = 0)	
	6.	NEAREST INTAKE: If you have identified any Prim	ary Targets for	he drinking			
	-	water threat (Factor 4), assign a score of 50; other	rwise, assign the	Nearest Intake			
		score from PA Table 3. If no drinking-water intake			1	0	
		distance limit, assign a score of zero.				151	
	-	DECOURCES. A serve of E is assisted			151 5	5	
	١/.	RESOURCES: A score of 5 is assigned.	,		1	1	_1

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### PA TABLE 3: VALUES FOR SECONDARY SURFACE WATER TARGET POPULATIONS

Surface Water		Nearest	7. 17 18.		7	Population	Served by	Intakes	Within Flo	w Catagor	γ			
Body Flow Characteristics (see PA Table 4)	Population	Intake (choose highest)	1 to 30	31 to 100	101 to 300	301 to 1,000	1,001 to 3,000	3,001 to 10,000	10,001 to 30,000	30,001 to 100,000	100,001 to 300,000	300,001 to 1,000,000	1,000,001 to 3,000,000	Population Value
< 10 cfs	0	20	2	5	16	52	163	521	1,633	5,214	16,325	52,136	163,246	0
10 to 100 cfs	0	2	1	1	2	5	16	52	163	521	1,633	5,214	16,325	2
> 100 to 1,000 cfs	0	1	0	٥	1	1	. 2	5	16	52	163	521	1,633	<u> </u>
> 1,000 to 10,000 cfs	0	0	0	o	o	0	1	1	2	6	16	52	163	<u> </u>
> 10,000 cfs or	0	0	o	0	o	٥	Ô	0	1	1	2	5	16	0
Great Lakes	o	10		3	۵	26	82	261	816	2,607	8,162	26,068	81,663	ð
3-mile Mixing Zone	est Intake =		•		L		ļ <u></u>		J		L		core =	0

## PA TABLE 4: SURFACE WATER TYPE / FLOW CHARACTERISTICS WITH DILUTION WEIGHTS FOR SECONDARY SURFACE WATER SENSITIVE ENVIRONMENTS

	ace Water Body	Dilution Weight
Water Sody Type  minimal stream  small to moderate stream  moderate to large stream  large stream to river  large river	flow less than 10 cfs flow less than 10 cfs flow 10 to 100 cfs flow greater than 100 to 1,000 cfs flow greater than 1,000 to 10,000 cfs flow greater than 10,000 cfs	1 0.1 N/A N/A N/A
3-mile mixing zone of quiet flowing streams or rivers	flow 10 cfs or greater	N/A
constat tidal water (harbors, sounds, bays, etc.), ocean, or Great Lakes	N/A	N/A

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## SURFACE WATER PATHWAY (continued) HUMAN FOOD CHAIN THREAT SCORESHEET

Enter the Surface Water Likelihood of Release score from page 12.  HUMAN FOOD CHAIN THREAT TARGETS  8. Determine the water body types and flows (if applicable) for all fisheries within the 15-mile target distance limit. If there are no fisheries within the target distance limit, assign a Targets score of 0 at the bottom of this page and proceed to page 15.	pected elease	No Suspected Release 1900,400,300 € 1001 400	References
HUMAN FOOD CHAIN THREAT TARGETS  8. Determine the water body types and flows (if applicable) for all fisheries within the 15-mile target distance limit. If there are no fisheries within the target distance limit, assign a Targets score of 0 at the bottom of this page and proceed to page 15.	[560]		
8. Determine the water body types and flows (if applicable) for all fisheries within the 15-mile target distance limit. If there are no fisheries within the target distance limit, assign a Targets score of 0 at the bottom of this page and proceed to page 15.			
the 15-mile target distance limit. If there are no fisheries within the target distance limit, assign a Targets score of 0 at the bottom of this page and proceed to page 15.			
The Alexander France Flow			
Fishery Name Water Body Type Flow			
cfs			
Newark Bay Coastal Tidal Ray N/A cfs			
Kill van Kull Coostal Tidal River N/A cfs			
Arthur Kill Coastal Tidal River N/A cls			
cfs			
9. PRIMARY FISHERIES: If you suspect any fishery listed above has been exposed to hazardous substances from the site (see Surface Water Criteria List, page 11), assign a score of 300 and do not evaluate Factor 10. List the Primary Fisheries:	(300 er 0i		
l "	10,30,12 = 01	[210,30,12, ar d)	
10. SECONDARY FISHERIES: If you have not identified any Primary Fisheries, assign a Secondary Fisheries score from the table below using the LOWEST flow			į
at any fishery within the 15-mile target distance limit.			
at any manary within the re-time target distance in the		l .	
Lowest Flow Secondary Fisheries Score			
< 10 cfs 210		12	
10 to 100 cfs 30		1	
> 100 cfs, coastal		1	}
tidal waters, oceans, 12 or Great Lakes			1
Ur dieat Lakes			

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## SURFACE WATER PATHWAY (continued) ENVIRONMENTAL THREAT SCORESHEET

LIKEL	HOOD OF RELE	ASE			Suspected Release	No Suspected Release	References
nter ti	he Surface Water L	ikelihood of Release so	core from page 12.	LR =		400	
ENVI	RONMENTAL TH	IREAT TARGETS				8800.800.000000000000000000000000000000	1
se ar lin	ensitive environmen nd 5). If there are n	ts within the 15-mile to sensitive environme	(if applicable) for all surface we target distance limit (see PA Tants within the 15-mile target determined the proceed to the page, and proceed	ables 4 listance			
Œ	nvironment Name		Water Body Type Flo	ow			
	Estuarine We	Hoods		O_cfs			
1	Estuanine W		Coastal Tidal Waters N	cfs cfs			
F -	Factor 13. List the	Primary Sensitive Env	ign a score of 300 and do not ( ironments:				
	A. For Secondary S	ITIVE ENVIRONMENT Sensitive Environment: assign scores as follo	S: s on surface water bodies with ws, and do not evaluate part E	flows of 3 of			
ſ		Dilution Weight	Environment Type and Value				
	Flow	(PA Table 4)	(PA Tables 5 and 6)	Total		1	
	cfs		K .			i i	
	cfs		x	=	1		
1	cfs		x	<del>- </del>	<del>[</del> ]	٥	
	cfs		×	=	{ }		
	cfs		x	= 0	ا ا	1	
	B. If NO Secondar	ry Sensitive Environme	ents are located on surface wa	Sum ter bodies	(10 <b>= 0</b> 1	(10 a q	
	with flows of	100 cfs or less, assign	i a score of to.				
				т	_	10	
				•			

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## PA TABLE 5: SURFACE WATER AND AIR SENSITIVE ENVIRONMENTS VALUES

	Assigned Value
ensitive Environment	100
intical habitat for Federally designated endangered or threatened species	
Manne Senetuary	
ational Perk	
esignated Federal Wilderness Area	
cologically important erees identified under the Coastal Zone Wilderness Act	Act
ensitive Areas identified under the National Estuary Program or Near Coastal Water Program of the Clean Water ensitive Areas identified under the National Estuary Program or Near Coastal Water Program of the Clean Water	akos)
ensitive Areas identified under the National Estuary Program of the Clean Water Act (subareas in lakes or entire small l critical Areas Identified under the Clean Lakes Program of the Clean Water Act (subareas in lakes or entire small l	
lational Monument	
lational Seashore Recreation Area	
lational Lakeshore Recreation Area	75
labitet known to be used by Federally designated or proposed endangered or threatened species	
lational Preserve	
lational or State Wildlife Refuge	
Init of Coastal Barner Resources System	
ederal land designated for the protection of natural ecosystems	
and the second Parish Wilderman Area	
the same and the market of the same of the	•
	a
Migratory pathways and feeding areas entical for the maintenance. Terrestnal areas utilized by large or dense aggregations of vertebrate animals (semi-equatic foragers) for breedin	
Nesignat rives reach designated as recreational	50
the force designated and angered of threatened species	
Habitat known to be used by State designated endangerous its Federal endangered or threatened status Habitat known to be used by a species under review as to its Federal endangered or threatened status	
Coastal Berrier (partially developed)	
Federally designated Scenic or Wild River	25
State land designated for wildlife or game management	
State designated Scenic or Wild River	
and the send Alexand Acad	
and the state of the size important to maintanance of unique blotte continue	5
State designated ereas for the protection/maintenance of equatic life under the Clean Water Act  See PA Table 6 (	
See PA Table 6	Surface Water Pathway
L	of
Wetlands PA Table	9 (Air Pathway)

## PA TABLE 6: SURFACE WATER WETLANDS FRONTAGE VALUES

Total Length of Wetlands	Assigned Value
Less than 0.1 mile	0
	25
0.1 to 1 mile	50
Greater than 1 to 2 miles	75
Greater then 2 to 3 miles	100
Greater then 3 to 4 miles	
Greater than 4 to 8 miles	150
Greater than 8 to 12 miles	250
Greater than 12 to 16 miles	350
Greater than 16 to 20 miles	450
Greater than 20 miles	500

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#### SURFACE WATER PATHWAY (concluded) WASTE CHARACTERISTICS, THREAT, AND PATHWAY SCORE SUMMARY

	A	В
WASTE CHARACTERISTICS	Suspected Release	No Suspected Release
14. A. If you have identified ANY Primary Targets for surface water (pages 12, 14, or 15), assign the waste characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part B of this factor.	i100 ≠ 32i	
B. If you have NOT identified any Primary Targets for surface water, assign the waste characteristics score calculated on page 4.	[100,32, er 19]	(100,32, or 19)
WC =		18

#### SURFACE WATER PATHWAY THREAT SCORES

Threat	Likelihood of Release (LR) Score (from page 12)	Targets (T) Score	Pathway Waste Characteristics (WC) Score (determined above)	Threat Score LR x T x WC / 82,500
Drinking Water	400	5	18	(májest to a mannum el 100)
Human Food Chain	400	12	18	Imagenet to a measurem of 1000
Environmental	400	10	18	industrie o masseum et 601

SURFACE WATER PATHWAY SCORE

(Drinking Water Threat + Human Food Chain Threat + Environmental Threat)

عا3.3

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11	<b>NI</b>	^		10	Λ	Λ
N	UΥ	0	$\cdot$	1	У	U

#### SOIL EXPOSURE PATHWAY SCORESHEET

0100	Pathway Characteristics			
	Do any people live on or within 200 ft of areas of suspected contamination?	Yes	No	
	Do any people attend school or day care on or within 200 ft of areas of suspected contamination?	Yee	No	
	Is the facility active? Yes No If yes, estimate the number of wor	_		
		A	8	
	1	Suspected	No Suspected	
LIKELIH	OOD OF EXPOSURE		Contamination	References
		.sea		
	PECTED CONTAMINATION: Surficial contamination is assumed.  LE =	550		
7.30			e 37	
RESIDE	INT POPULATION THREAT TARGETS		B 52 .	
2. RESI	IDENT POPULATION: Determine the number of people occupying residences			
or at	ttending school or day care on or within 200 feet of areas of suspected			
cont	tamination (see Soil Exposure Pathway Criteria List, page 18)	0		
	· · · · · · · · · · · · · · · · · · ·	. 150 = 01		
3. RES	IDENT INDIVIDUAL: If you have identified any Resident Population (Factor 2).	0		
1	gn a score of 50; otherwise, assign a score of 0.	(18, 10, 6, or 0)	ura just 🔞	
4. WO	RKERS: Assign a score from the following table based on the total number of	1		
wor	kers at the facility and nearby facilities with suspected contamination:			
1	Mumber of Workers Score Score			
	0 0 1 to 100 5			1
	101 to 1,000 10	0		
	>1.000		Service.	┪ ───
S. TER	RRESTRIAL SENSITIVE ENVIRONMENTS: Assign a value from PA Table 7			
for	each terrestrial sensitive environment that is located on an area of suspected			
con	ntaminations			
	Terrestrial Sensitive Environment Type Value			1
1.		1		
		10		
1	Sun			┩
		, sa		
6. RE	SOURCES: A score of 5 is assigned.		4.25	4
	. T	5		<b>4</b>
			10000	_
WAS	TE CHARACTERISTICS	[100, 32, er 10)	Same of the same	7
	WC	- 18		
7. As	ssign the waste characteristics score calculated on page 4. WC	10		
		المهمرا	o a manufacture on MICH	7
DECI	DENT POPULATION THREAT SCORE: LE x T x WC	_   ~	0.6	
UE31	82,500	ا ا	·· U	
	RBY POPULATION THREAT SCORE:		2	
Assig	gn a score of 2		20 C C C C C C C C C C C C C C C C C C C	_
	THE PART OF THE PA	2	. 6	
SOII	L EXPOSURE PATHWAY SCORE: Ident Population Threat + Nearby Population Threat		• 6	
Kesi	Ident Population (in the first of the first			

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Site Name: West End Gos Works

Date: 11-1-91

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#### AIR PATHWAY SCORESHEET

Pathway Characteristics			
Do you suspect a release (see Air Pathway Criteria List, page 21)? Distance to the nearest individual:	Yes	No _/ ft	
	Α	В	
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	Referen
SUSPECTED RELEASE: If you suspect a release to air (see page 21), assign a score of 550, and use only column A for this pathway.	(SEO)		
NO SUSPECTED RELEASE: If you do not suspect a release to air, assign a score of 500, and use only column B for this pathway.		500	
LR =		500	]
TARGETS			1
3. PRIMARY TARGET POPULATION: Determine the number of people subject to exposure from a release of hazardous substances through the air (see Air Pathway Criteria List, page 21).			
<ol> <li>SECONDARY TARGET POPULATION: Determine the number of people within the 4-mile target distance limit, and assign the total population score from PA Table 8.</li> </ol>		192	
5. NEAREST INDIVIDUAL: If you have identified any Primary Targets for the air pathway, assign a score of 50; otherwise, assign the highest Nearest Individual score from PA Table 8.	[60,30,7.2.1, <b>a</b> 9]	20	
6. PRIMARY SENSITIVE ENVIRONMENTS: Sum the sensitive environment values (PA Table 5) and wetland acreage values (PA Table 9) for environments subject to exposure from air hazardous substances (see Air Pathway Criteria List, page 21).    Sensitive Environment Type   Value   N/A   Sum = Su			
7. SECONDARY SENSITIVE ENVIRONMENTS: Use PA Table 10 to determine the score for secondary sensitive environments.		0	
8. RESOURCES: A score of 5 is assigned.	5 5	151 5	
T =		217	
WASTE CHARACTERISTICS	(100 - 32)		
9. A. If you have identified any Primary Targets for the air pathway, assign the wast characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part B of this factor.	(100,32, or 10)	(100.33, = 181	
B. If you have NOT identified any Primary Targets for the air pathway, assign the waste characteristics score calculated on page 4.		18	
wc	=	18	
AIR PATHWAY SCORE:  LR x T x WC 82,500		23.67	

### PA TABLE 8: VALUES FOR SECONDARY AIR TARGET POPULATIONS

	r	Nearest					apulation	Within Di	tance Cal	вдолу			Y 20020	<b>3 * 3</b> * 3 * 3 * 3 * 3 * 3 * 3 * 3 * 3 *	ĺ
Distance from Site	Population	Individual (choose highest)	1 to 10	11 to 30	31 10 100	101 to 300	301 to 1,000	1,001 to 3,000	3,001 to 10,000	10,001 to 30,000	30,001 te 100,000	100,001 te 300,000	300,001 to 1,000,000	1,000,001 to 3,000,000	Population Value
Onsite	0	20	1	2	5	16	52	163	521	1,633	5,214	16,325	52,136	163,246	
>0 to ¼ mile	316	20	1	1	1	4	133	41	130	408	1,303	4,081	13,034	40,811	
× to % mile	2,717	2	. 0	o	,	1	3	<b>③</b>	28	88	282	882	2,815	8,815	_9
> % to 1 mile	28,837	,	0	0	o	1	,	3	8	<b>②</b>	83	261	834	2,612	<u> 26</u>
>1 to 2 miles	121,721	o	0	٥	0	o	1	1	3	8	27	83	266	833	83
2 to 3 miles	ا <u>35, اع3ا</u>	o	0	0	o	o	1	1	1	4	12	<b>38</b>	120	376	_38
>3 to 4 miles	148,034	o	0	0	0	0	0	1	1	2	7	<u> </u>	73	229	_23
Nearest	Individual =	ಎಂ											;	Score =	192

## PA TABLE 9: AIR PATHWAY VALUES FOR WETLAND AREA

Wetland Area As	2 21. 1. 2. 1.
ess then 1 acre	0
to 50 acres	25
Greater than 50 to 100 acres	75
Greater than 100 to 150 acres	125
Greater than 150 to 200 acres	175
Greater than 200 to 300 acres	250
Greater than 300 to 400 acres	350
Greater than 400 to 500 acres	450
Greater than 500 acres	500

## PA TABLE 10: DISTANCE WEIGHTS AND CALCULATIONS FOR AIR PATHWAY SECONDARY SENSITIVE ENVIRONMENTS

Olstence	Oktonie Weight	Secultive Environment Type and Value (from PA Table 5 or 9)	Prodect
Onsite	0.10	×	
		x	
		x	
0-1/4 mi	0.025	×	
		x	
		×	
1/4-1/2mi	0.0054	×	
		x	
		×	

Total Environments Score =

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Site Name: West End Gas Works
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#### SITE SCORE CALCULATION

	S	S <sup>2</sup>
GROUND WATER PATHWAY SCORE (Sp.):	0.54	0,29
SURFACE WATER PATHWAY SCORE (Sew):	2.36	5,57
SOIL EXPOSURE PATHWAY SCORE (S):	2.60	6.76
AIR PATHWAY SCORE (S,):	23.67	560.27
SITE SCORE:	$\sqrt{\frac{S_{gw}^2 + S_{sw}^2 + S_{so}^2 + S_{s}^2}{4}}$	= 11.97

## WEST END GAS WORKS NJD981084817

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